

# VITAMIDE® AY25BK6716

Polyamide 66  
Jackdaw Polymers

Message:

VITAMIDE® AY25BK6716 is a Polyamide 66 (Nylon 66) product filled with 25% glass fiber. It is available in Europe. Primary characteristic: flame rated.

| General Information               |                                  |                   |                        |
|-----------------------------------|----------------------------------|-------------------|------------------------|
| Filler / Reinforcement            | Glass Fiber,25% Filler by Weight |                   |                        |
| Appearance                        | Black                            |                   |                        |
| Physical                          | Nominal Value                    | Unit              | Test Method            |
| Specific Gravity                  | 1.58                             | g/cm <sup>3</sup> | ASTM D792, ISO 1183    |
| Water Absorption (23°C, 24 hr)    | 1.2                              | %                 | ASTM D570, ISO 62      |
| Mechanical                        | Nominal Value                    | Unit              | Test Method            |
| Tensile Strength (Break)          | 140                              | MPa               | ASTM D638, ISO 527-2   |
| Tensile Elongation (Break)        | 3.0                              | %                 | ASTM D638, ISO 527-2   |
| Flexural Modulus                  | 8300                             | MPa               | ASTM D790, ISO 178     |
| Flexural Stress                   |                                  |                   |                        |
| --                                | 210                              | MPa               | ISO 178                |
| Break                             | 210                              | MPa               | ASTM D790              |
| Thermal                           | Nominal Value                    | Unit              | Test Method            |
| Deflection Temperature Under Load |                                  |                   |                        |
| 0.45 MPa, Unannealed              | 255                              | °C                | ASTM D648, ISO 75-2/B  |
| 1.8 MPa, Unannealed               | 250                              | °C                | ASTM D648, ISO 75-2/A  |
| Peak Melting Temperature          | 260                              | °C                | ASTM D2117, ISO 1218   |
| Electrical                        | Nominal Value                    | Unit              | Test Method            |
| Volume Resistivity                | 1.0E+15                          | ohms·cm           | ASTM D257, IEC 60093   |
| Dielectric Strength               | 21                               | kV/mm             | ASTM D149, IEC 60243-1 |
| Comparative Tracking Index        |                                  |                   |                        |
| Solution A                        | 450                              | V                 | IEC 60112              |
| -- <sup>1</sup>                   | 450                              | V                 | ASTM D3638             |
| Flammability                      | Nominal Value                    | Unit              | Test Method            |
| Flame Rating (1.60 mm)            | V-2                              |                   | UL 94                  |
| Glow Wire Ignition Temperature    | 960                              | °C                | IEC 60695-2-13         |
| Oxygen Index                      | 31                               | %                 | ASTM D2863, ISO 4589-2 |
| NOTE                              |                                  |                   |                        |

1. Solution A

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